

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently amended) A method of colorizing a schematic including at least one feature, the method comprising:

obtaining a schematic generated from a feature-based parametric modeling tool;

identifying a set of features associated with the schematic to be colorized;

establishing a color scheme, wherein the color scheme includes a color, representing a visible wavelength in the electromagnetic spectrum, associated with at least one of the features in the set; and

automatically colorizing the at least one feature based on the color scheme to generate a colorized schematic.

2. (Original) The method of claim 1, wherein each feature includes one or more elements, and wherein the step of automatically colorizing the feature includes:

associating an element with one of the features; and

automatically colorizing the element based on the color scheme.

3. (Original) The method of claim 1, further including:

storing the colorized schematic in an electronic format.

4. (Currently amended) The method of claim 3, wherein establishing a color scheme includes storing an association between the color and the at least one feature, and further including:

obtaining a revised schematic;

~~comparing the stored colorized schematic to the revised schematic to determine revised portions and non-revised portions of the revised schematic;~~

applying the stored association to the revised schematic such that colorizing the non-revised portions of the revised schematic unchanged with respect to the original schematic are automatically colorized in the same manner as in ~~based on~~ the stored colorized schematic;

determining revised portions and the unchanged portions of the revised schematic based on the application of the stored association to the revised schematic;

associating an element from the revised portions with one of the features; and

automatically colorizing the element based on the color scheme.

5. (Original) The method of claim 2, wherein the step of associating an element with one of the features includes:

selecting a feature; and

selecting at least one element on the schematic to be associated with the selected feature.

6. (Original) The method of claim 5, wherein the step of selecting at least one element on the schematic includes:

selecting at least one element in a visual representation of the schematic.

7. (Original) The method of claim 5, wherein the step of selecting at least one element on the schematic includes:

entering one or more labels associated with the elements.

8. (Currently amended) A computer-readable medium including instructions for performing a method of colorizing a schematic including at least one feature, the method comprising:

obtaining a schematic generated from a feature-based parametric modeling tool;

identifying a set of features on the schematic to be colorized;

establishing a color scheme, wherein the color scheme includes a color, representing a visible wavelength in the electromagnetic spectrum, associated at least one of the features in the set; and

automatically colorizing the at least one feature based on the color scheme to generate a colorized schematic.

9. (Original) The computer readable medium of claim 8, wherein each feature includes one or more elements, and wherein the step of automatically colorizing the feature includes:

associating an element with one of the features; and

automatically colorizing the element based on the color scheme.

10. (Previously presented) The computer readable medium of claim 8, further including:

storing the colorized schematic in an electronic format.

11. (Currently amended) The computer readable medium of claim 10, wherein establishing a color scheme includes storing an association between the color and the at least one feature, and wherein the method further including includes:

obtaining a revised schematic;

~~comparing the stored colorized schematic to the revised schematic to determine revised portions and non-revised portions of the revised schematic;~~

applying the stored association to the revised schematic such that colorizing the non-revised portions of the revised schematic unchanged with respect to the original schematic are automatically colorized in the same manner as in ~~based on~~ the stored colorized schematic;

determining revised portions and the unchanged portions of the revised schematic based on the application of the stored association to the revised schematic;

associating an element from the revised portions with one of the features; and

automatically colorizing the element based on the color scheme.

12. (Original) The computer readable medium of claim 9, wherein the step of associating an element with one of the features includes:

selecting a feature; and

selecting at least one element on the schematic to be associated with the selected feature.

13. (Original) The computer readable medium of claim 12, wherein the step of selecting at least one element on the schematic includes:

selecting at least one element in a visual representation of the schematic.

14. (Original) The computer readable medium of claim 12, wherein the step of selecting at least one element on the schematic includes:

entering one or more labels associated with the elements.

15. (Currently amended) A system configured to colorize a schematic including a set of features, the system comprising:

a processor; and

a memory, wherein the memory includes

a colorization module configured to obtain a schematic generated from a feature-based parametric modeling module and colorize the schematic to generate a colorized schematic.

16. (Currently amended) The system of claim 15, wherein the ~~memory~~ further modeling module includes~~[[:]]~~ a Pro-Engineer software application included in the memory ~~a computer-aided design module configured to prepare the schematic.~~

17. (Currently amended) The system of claim ~~16~~ 15, wherein the colorization module is software configured to work with the ~~computer-aided design~~ modeling module during colorization of the schematic.

18. (Currently amended) The system of claim ~~46~~ 15, further including an output module for providing the colorized schematic to one or more of a display device, a printer, or a storage medium.

19. (Currently amended) The system of claim ~~46~~ 15, further including an input module for receiving inputs from one or more of a keyboard, a point-and-click device, or a storage medium reader.

20. (Currently amended) The system of claim ~~46~~ 15, wherein the colorization module is configured to enable the processor to ~~perform the following steps:~~

identify a set of features on the schematic to be colorized;
establish a color scheme, wherein the color scheme includes a color associated with at least one of the features;
associate an element with one of the features; and
automatically colorize the element based on the color scheme.

21. (Currently amended) The system of claim ~~17~~ 20, wherein the colorization module is further configured to instruct the processor to ~~further perform the following steps:~~

store the colorized schematic in an electronic format;

store an association between the color and the at least one feature;

obtain a revised schematic;

~~compare the stored colorized schematic to the revised schematic determine revised portions and non-revised portions of the revised schematic;~~

apply the stored association to the revised schematic such that ~~colorize the non-revised portions of the revised schematic unchanged with respect to the original schematic are~~
automatically colorized in the same manner as in ~~based on~~ the stored colorized schematic;

determine revised portions and the unchanged portions of the revised schematic based on
the application of the stored association to the revised schematic;

associate an element from the revised portions with one of the features; and

automatically colorize the element based on the color scheme.

22. (Currently amended) A system for colorizing a schematic including at least one feature, the system comprising:

a colorization module for colorizing the schematic, wherein the colorization module is configured to ~~perform the following steps:~~

obtain a schematic generated from a feature-based parametric modeling tool;

identify a set of features on the schematic to be colorized;

establish a color scheme, wherein the color scheme includes a color, representing a visible wavelength in the electromagnetic spectrum, associated with each of the features in the set; and

automatically colorize the features based on the color scheme to generate a colorized schematic.

23. (Original) The system of claim 22, wherein each feature includes one or more elements, and wherein the step of automatically colorizing the feature includes:

associating an element with one of the features; and

automatically colorizing the element based on the color scheme.

24. (Currently amended) The system of claim 22, wherein the colorization module is further configured to ~~perform the following steps:~~

store the colorized schematic in an electronic format;

store an association between the color and the at least one feature;

obtain a revised schematic;

~~compare the stored colorized schematic to the revised schematic to determine revised portions and non-revised portions of the revised schematic;~~

apply the stored association to the revised schematic such that colorize the non-revised portions of the revised schematic unchanged with respect to the original schematic are automatically colorized in the same manner as in ~~based on~~ the stored colorized schematic;

determine revised portions and the unchanged portions of the revised schematic based on the application of the stored association to the revised schematic;

associate an element from the revised portions with one of the features; and

automatically colorize the element based on the color scheme.

25. (Previously presented) The method of claim 1, wherein establishing a color scheme includes:

establishing a first color associated with a first feature in the set;

establishing a second color associated with a second feature in the set; and

establishing a third color, different from the first and second colors, associated with a third feature in the set.

26. (Previously presented) The method of claim 1, wherein establishing a color scheme includes:

receiving information from a user for establishing the color scheme.

27. (Previously presented) The method of claim 1, wherein establishing a color scheme includes:

receiving information from a user for associating the color with the at least one of the features in the set.

28. (Previously presented) The method of claim 1, wherein automatically coloring the at least one feature based on the color scheme to generate a colored schematic includes:

automatically coloring the at least one feature based on the color scheme and based on a user input.